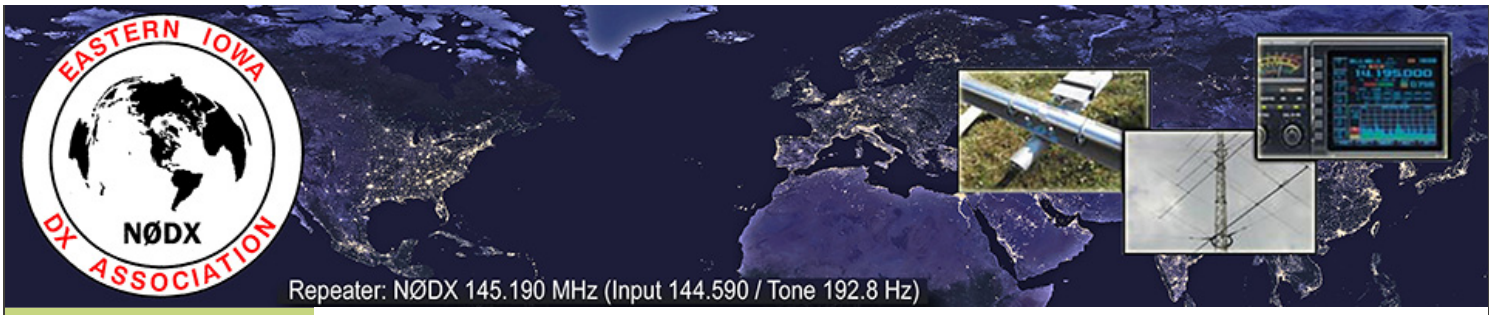

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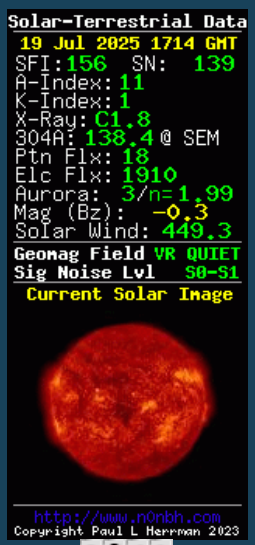

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The Eastern Iowa DX Bulletin

Number 283, July 18, 2025

Craig Fastenow, KØCF, Editor

This bulletin is a compilation of **currently active** DX operations (or those that will become active within the current week) from recent issues of the three DX bulletins listed below and other sources. Credit for the source is given at the end of each article.

Articles are ordered by the entity's callsign prefix from the *ARRL DXCC Entities List*. Callsigns used are in **bold** with dates of operation highlighted in red. Clickable links are provided for QSL and other information wherever possible. Note that articles may be edited for grammar, language, style and accuracy and will remain in *The Bulletin* while active; articles that are announcements of ongoing operations, or that have no specified end date, will be removed after three weeks.

Also included is a **Propagation** section, updated daily; and a **Contest Calendar** of upcoming popular contests.

DX News items are courtesy of:
- The ARRL DX Bulletin
  - This bulletin is available via email subscription only. See http://www.arrl.org/bulletins to subscribe. (The online archive is no longer updated.)
- 425 DX News, A.R.I. DX Bulletin (425DXN)
  - Edited by Mauro Pregliasco, I1JQJ & Valeria Pregliasco, IK1ADH
  - 425 DX News Home Page: https://www.425dxn.org/
  - 425 DX News Google Group: https://groups.google.com/g/425eng
- DX Newsletter (DXNL)
  - Edited by Andreas Salder, DK5ON
  - A weekly service of DARC Committee "DX", http://www.darcdxhf.de
- Propagation data is from:
  - National Oceanic and Atmospheric Administration's Space Weather Prediction Center
  - Dr. Tony Phillips' SpaceWeather.com, used by permission
- Contest data courtesy of the WA7BNM Contest Calendar

DX News

3D2, FIJI. Michal, OM2DX, will be back on the bands as **3D2XD** from July 22nd to 25th on 60-10m using CW, SSB, and FT8 with 100W and wire antennas. QSL via OM2DX, OQRS.
-[DXNL # 2467 July 16, 2025] (0718-0725)

8Q, MALDIVES. Maxim, OH7O will be active as **8Q7YY** from the Maldives (AS-013) on July 17th-25th. He will operate SSB (FT8 "from time to time") on 40, 20, 17, 15, 12, 10 and 6 meters. QSL via LoTW. "No QSL cards are planned, but if a strong interest is expressed, I will discuss with a QSL manager".
-[425DXN # 1784 July 12, 2025] (0711-0725)

9G, GHANA. Patrick, HB9HZZ, is QRV as **9G5HZ** from Accra. Activity is mostly on 20 meters using VarAC, with some FT8 and Winlink. QSL via LoTW.
-[ARRL DX Bulletin # 29 July 17, 2025] (0718-0808)

9V, SINGAPORE. Eric, KH6WI, is QRV as **9V1EO** for the next two years. Activity is on Satellite QO-100 using FT8 and FT4. QSL via LoTW.
-[ARRL DX Bulletin # 29 July 17, 2025] (0718-0808)

CN, MOROCCO. Andre, HB9HLM will be active holiday style as **CN2NE** from Morocco on July 15th-22nd. He will be QRV on 40-6 meters from grid locator IM63dm. QSL via eQSL and QRZ Logbook; he does not plan to have paper cards.
-[425DXN # 1783 July 5, 2025] (0711-0725)

CN, MOROCCO. Michel, F5LRL will be QRV as **CN2DX** near Kenitra from June 25th to August 30th. Activity is on 40 to 6 meters using CW, SSB, and FT8 generally during his early morning (0500-1000 UTC) and evening (1800-2200 UTC) hours. QSL via F5LRL.
-[ARRL DX Bulletin # 25 June 19, 2025] (0620-0829)

CT, PORTUGAL. Special event station **CR5Q** will be active on July 14th-20th for the 43rd International Motorcycle Rally in Faro, Portugal. Expect activity on 80-6 meters SSB, CW and digital modes. QSL via CT1EHX.
-[425DXN # 1784 July 12, 2025] (0711-0725)

DL, GERMANY. Members of the local chapters in the Ruhr District of the DARC will be active as **DL25WUG** on July 16th-27th during the FISU Summer World University Games. All QSOs will be confirmed via the bureau; QSOs will be uploaded to LoTW, ClubLog, QRZ Logbook and DCL.
-[425DXN # 1784 July 12, 2025] (0711-0801)

DL, GERMANY. Special callsign **DLØSOP** will be active on July 1st-31st for the 67th edition of the Sea of Peace Award (see https://dl0sop.darc.de/ for full details). QSL via ClubLog's OQRSS, LoTW and eQSL.
-[425DXN # 1782 June 28, 2025] (0627-0801)

DXCC TOP TWENTY. Here are the top 20 entities on ClubLog's "DXCC Most Wanted" list as of July 18, 2025:

1.	P5	DPRK (North Korea)	11.	VKØM	Macquarie Island
2.	BS7H	Scarborough Reef	12.	KH4	Midway Island
3.	CEØX	San Felix Islands	13.	PYØS	Saint Peter And Paul Rocks
4.	BV9P	Pratas Island	14.	KP5	Desecheo Island
5.	KH7K	Kure Island	15.	VPØS	South Sandwich Islands
6.	KH3	Johnston Island	16.	ZL9	New Zealand Subantarctic Islands
7.	3Y/P	Peter 1 Island	17.	FK/C	Chesterfield Islands
8.	FT5/X	Kerguelen Island	18.	VKØH	Heard Island
9.	YVØ	Aves Island	19.	FT/T	Tromelin Island
10.	3Y/B	Bouvet Island	20.	EZ	Turkmenistan

For the complete list, see https://clublog.org/mostwanted.php
-[KØCF July 18, 2025 (0718-0808)

EA, SPAIN. Javier, EC7DZZ will operate QRP as **ED7DZZ** on July 21st-24th. This will be a POTA operation from Tabarca Island (EU-093).
-[425DXN # 1785 July 19, 2025] (0718-0725)

EA6, BALEARIC IS. Special event station **EG6AFM** will be QRV on July 19th and 20th to celebrate the 175th anniversary of the La Mola Fortress on the island of Menorca, IOTA EU-004. Activity will be on the HF bands using CW, SSB, and FT8. QSL via EA6URM.
-[ARRL DX Bulletin # 29 July 17, 2025] (0718-0725)

EI, IRELAND. Gordon, G3PXT will be active as **EJ3VP** from Arranmore Island (EU-121) from June 25th to July 2nd, and from Inisheer Island (EU-006) on July 25th-30th, IOTA Contest included. He will operate SSB on 80-6 meters. These operations are part of a three-month tour of Ireland (EI/G3PXT/p and EI3VP/p) and Northern Ireland (GI3PXT/p) that started on June 4th and will end on September 5th.
-[425DXN # 1782 June 28, 2025] (0627-0801)

F, FRANCE. Members of the Radio Club de Provins (F6KOP) will be active as **TM5K** from Molene Island (EU-065) from July 21st to July 27th, the end of the IOTA Contest (July 26th-27th). They will operate CW and SSB on 80, 40, 20, 15 and 10 meters, as well as on 6 meters (also FT8). QSL via F8GGV.
-[425DXN # 1785 July 19, 2025] (0718-0801)

F, FRANCE. Jo, F8GDP will be active holiday style as **F8GDP/p** from Oleron Island (EU-032) from July 20th to August 1st. He will operate CW and "perhaps some FT8 from time to time" on 60, 40 and 30 meters. QSL via F8GDP.
-[425DXN # 1784 July 12, 2025] (0718-0801)

F, FRANCE. Special callsign **TM5VDL** will be active on July 5th-19th from Dunkirk during the second stage of this year's edition of the Tall Ships Races. QSL via F8KGS.
-[425DXN # 1783 July 5, 2025] (0704-0725)

F, FRANCE. French special callsigns to be activated for this year's 112th edition of the Tour de France include:
TM25TDF by Radio Club Emettre from July 2nd to 26th, QSL via F5KMY.
TM59TDF by Radio Club de l'Agglomeration Dunkerquoise on July 5th-19th, QSL via F8KGS and eQSL
TM112TDF by F8GGZ from July 5th to 26th, QSL via eQSL only.
-[425DXN # 1782 June 28, 2025] (0627-0725)

GM, SCOTLAND. GØDWV, G4AFF, G4LPP and MØNKR will be active as **GMØFRT/p** from the Shetland Islands (EU-012) on July 23rd-28th, IOTA Contest (July 26th-27th) included. Outside the contest they will operate CW and SSB on 30, 17 and 12 meters, as well as FT8 on 6 and 4 meters. QSL via LoTW.
-[425DXN # 1785 July 19, 2025] (0718-0801)

GW, WALES. Members of the British Army and others will be QRV with special event station **GB1RW** at the Royal Welsh Showground from July 21st to 24th to promote amateur radio, education, and military outreach. QSL via operators' instructions.
-[ARRL DX Bulletin # 29 July 17, 2025] (0718-0725)

HB, SWITZERLAND. The 2025 UEFA Women's Championship will run from July 2nd to 27th in Switzerland, and eight special event stations will be active from the host cities throughout July:
HB2Ø25BA (Basel),
HB2Ø25BE (Bern),
HB2Ø25GE (Geneve),
HB2Ø25LU (Lucerne),
HB2Ø25SG (St. Gallen),
HB2Ø25SI (Sion),
HB2Ø25TH (Thun), and
HB2Ø25ZH (Zurich).
Certificates will be available for contacts made on CW, Phone and/or Digital. See https://www.qrz.com/db/HB2025BA for the details. QSL via LoTW only, paper cards will not be provided.
-[425DXN # 1782 June 28, 2025] (0627-0801)

HK, COLOMBIA. Members of the Asociacion de Radioaficionados Unidos (HK4RAU) have announced plans for a DXpedition to Isla Fuerte (SA-078), Colombia to take during the last week of July, including participation in the IOTA Contest (July 26th-27th). Callsigns to be used are **5KØT** (operated by HK4T) and **5KØC** (operated by HK4C), as well as **HK4SSI/Ø** and **HK4X/Ø** for "portable activations". Activity will be on HF, VHF/ UHF and for the first time satellites. QSL via EA5GL.
-[425DXN # 1783 July 5, 2025] (0718-0801)

HL, SOUTH KOREA. Special event station **HL7ØKARL** commemorates the 70th anniversary of the Korean Amateur Radio League (KARL), first established on April 20, 1955. QSL via LoTW; paper cards will not be available.
-[425DXN # 1783 July 5, 2025] (0704-0725)

HR, HONDURAS. Team **HQ9HC** (namely W5BAK, W5HV, WA5LEE, WB5HJV and WP4VW) will be active from Roatan Island (NA-057) on July 14th-20th. Activity will be "all bands, all modes". See https://www.qrz.com/db/HQ9HC for the QSL route.
-[425DXN # 1784 July 12, 2025] (0711-0725)

HS, THAILAND. The Asian Team Nr 3 for WRTC 2026 will be testing their equipment during the IARU HF Championship (July 12th-13th) this year as **E21WRTC**. They will also be QRV before and after the contest from July 12th until August 10th. QSL via E21EIC, LoTW.
-[ARRL DX Bulletin # 28 July 10, 2025] (0711-0815)

I, ITALY. Marcus, DL3NC plans to be QRV as **ID9/DL3NC** from Stromboli Island (ID9), EU-017, on July 24th-28th. He will operate CW and SSB, and will participate in the IOTA Contest (July 26th-27th). QSOs will be uploaded to ClubLog. QSL via DL3NC.
-[425DXN # 1785 July 19, 2025] (0718-0801)

I, ITALY. Marcus, DL3NC, activates Stromboli Island (EU-017) as **I/DL3NC** from July 24th to 27th for the IOTA Contest. QSL via DL3NC, ClubLog's OQRS.
-[DXNL # 2467 July 16, 2025] (0718-0801)

ISØ, SARDINIA. Eddy, DM5JBN is QRV as **ISØ/DM5JBM** until July 31st. Activity is holiday style on the HF bands. This includes being an entry in the upcoming RSGB IOTA contest. QSL via bureau.
-[ARRL DX Bulletin # 29 July 17, 2025] (0718-0801)

J3, GRENADA. Eric, GM5RDX will be active as **J38DX** on 80-6 meters with two stations at the same time from July 5th to July 13th. "I expect to have an FT8 station operational soon after my arrival on Saturday evening, with the SSB station being set up on Sunday morning", he says. "Band conditions permitting, I expect to be fully operational with two stations by around 11am Sunday (1600 UTC)". Graham, 2MØIJU (J38LD), who had planned to accompany Eric, had to cancel his trip to Grenada at the last moment. QSL via MØOXO's OQRS.
-[425DXN # 1783 July 5, 2025] (0704-0725)

JA, JAPAN. Take, JI3DST will be active as **JI3DST/1** from Shikine Island (AS-008) on July 24th-28th, IOTA Contest included. Other callsigns to be used outside the contest are **JS6RRR/1** and **JS6RRR/p** (FT8/FT4) on 40-10 meters; **JJ5RBH/1** and **JJ5RBH/p** (FT8/FT4) on 6m, 2m and 70 cm. QSOs will be uploaded to ClubLog and LoTW.
-[425DXN # 1783 July 5, 2025] (0718-0801)

JW, SVALBARD. Jaroslaw, SP9HGN will be active from Svalbard (EU-026) from July 24th to August 2nd. He will operate QRP on 40, 20, 15, 10 meters mainly SSB, and possibly FT8 if needed. He plans to to be QRV as **JW/SP9HGN/p** from three summits - Pyramiden (SOTA JW/VS-265), Mumien (JW/VS-413), and Gronfjordfjellet (JW/MS-154), max one hour from each. QSL via LoTW.
-[425DXN # 1785 July 19, 2025] (0718-0801)

JW, SVALBARD. Vlad, OK2WX will be active as **JWØV** from Longyearbyen (EU-026), Svalbard on July 14th-23rd. He will operate CW, SSB and FT8 on 80-10 meters. See https://www.mdxc.support/jw0v/ for more information. QSL via I8KHC and LoTW.
-[425DXN # 1783 July 5, 2025] (0711-0725)

K, UNITED STATES. Randy, K5SL, puts Daupin Island (NA-213) on the air as **K5SL/p** from July 19th to 26th on 40-15m. QSL via K5SL.
-[DXNL # 2467 July 16, 2025] (0718-0725)

K, UNITED STATES. Team **K4T** will be active from Tangier Island (NA-083) on July 22nd-27th, for POTA and for the IOTA Contest (July 26th-27th). QSL via KB4YPN and LoTW.
-[425DXN # 1785 July 19, 2025] (0718-0801)

OE, AUSTRIA. The special event stations **OE2XXM** and **OE5XXM** get on the air around the 39th international ham meeting in Gosau. QRV during July and September on 80, 40, 2m, and 70cm. For more information see: https://www.qrz.com/db/oe2xxm and https://www.qrz.com/db/oe5xxm. QSL via

bureau.
-[DXNL # 2466 July 9, 2025] (0711-0801)

OJØ, MARKET REEF. Joseph, OG7D, will be back on the air as **OJØD** from Market Reef (EU-053) from July 19th to 21st via QO-100 SSB. QSL via OG7D, LoTW.
-[DXNL # 2467 July 16, 2025] (0718-0725)

OX, GREENLAND. Bo, OZ1DJJ will be active again as **OX3LX** from Nuuk, Greenland (NA-018) from July 14th to 29th. One- or two-day trips to IOTA group NA-220 are possible. As always, this will be a working trip, and he will be QRV only in his spare time. QSL via OZØJ, ClubLog's OQRS and LoTW.
-[425DXN # 1784 July 12, 2025] (0711-0801)

PJ2, CURACAO. This year the Dave Kalter Youth DX Adventure will see a team of four teenagers (namely AD8FQ, AD8IR, KJ5CMP, and KJ5JR) be active again as **PJ2Y** from Curacao (SA-099) on July 17th-22nd. More information on https://youthdxa.org.
-[425DXN # 1784 July 12, 2025] (0711-0725)

SM, SWEDEN. Joergen OZØJ, Anders OZ3ACB, Soeren OZ9U and possibly others will be active as **SM/OV2E** from Aspo Island (EU-138) on July 24th-28th, IOTA Contest included. Outside the contest they will operate SSB, CW, and digital modes on the HF bands and 6 meters. QSOs will be uploaded to LoTW and ClubLog. QSL via OZØJ.
-[425DXN # 1779 June 7, 2025] (0718-0801)

SP, POLAND. Special callsign **SN92LOT** will be active on July 1st-31st to commemorate the 92nd anniversary of the ill-fated flight of Lithuanian pilots Steponas Darius and Stasys Girenas. On July 15, 1933, they attempted a nonstop flight from New York City to Kaunas in a small airplane named "Lituanica". After crossing the Atlantic Ocean, they crashed on July 17 when they were only 400 miles short of their final destination. QSL via SP1PMY.
-[425DXN # 1781 June 21, 2025] (0627-0801)

SV5, DODECANESE. Team **J45E** will be active from Kos Island (EU-001), Dodecanese on July 24th-29th, including participation in the IOTA Contest. Outside the contest look for activity on 80-10 meters CW, SSB and digital modes. QSL via ClubLog's OQRS, LoTW, or via IZ7ATN.
-[425DXN # 1784 July 12, 2025] (0718-0801)

SV9, CRETE. Team **SX9G** (SV1DPJ, SV1ENG, SV1GE, SV1JG, SV1YU, DD2CW, GØPZA, HB9EBC and VK2IR) will be active from Gavdos Island (EU-187) on July 24th-29th, IOTA Contest included. QSL via ClubLog's OQRS, or via ON3UN.
-[425DXN # 1779 June 7, 2025] (0718-0801)

T3Ø, WEST KIRIBATI. Members of the Rebel DX Group are QRV as **T3ØTTT** from North Tarawa until September 8th. Activity is on 160 to 6 meters using CW, SSB, FT8, and FT4 with up to 10 stations active. QSL via LoTW.
-[ARRL DX Bulletin # 25 June 19, 2025] (0620-0905)

TF, ICELAND. Nicolas, F5TGR will be active as **TF/F5TGR** from Iceland from July 26th to August 9th. He will operate CW, SSB and FT8 on 40, 30, 20, 15, 12 and 10 meters. QSL via LoTW, or ClubLog's OQRS.
-[425DXN # 1785 July 19, 2025] (0718-0808)

TF, ICELAND. Michael, VE2XB will be active as **TF/VE2XB** from Olafsvik, Iceland (EU-021) from July 11th to 25th. He will operate CW and SSB on 80-10 meters. QSL via VE2XB.
-[425DXN # 1784 July 12, 2025] (0711-0725)

TY, BENIN. Red, DL1BUG will be active again as **TY5FR** from Cotonou, Benin from July 9th to August 6th. He will operate CW and SSB on 80-10 meters. QSL via ClubLog's OQRS, LoTW, or via DL1BUG.
-[425DXN # 1783 July 5, 2025] (0704-0808)

TY, BENIN. New station **TY5AD** is sponsored and remotely controlled by the Russian DX Team. Hosted near Cotonou, Benin, the station runs 100 watts into a vertical antenna and can be operated on 80-10 meters. QSL via ClubLog's OQRS, QSOs will be uploaded to LoTW within 2-3 days after that

request.
-[425DXN # 1783 July 5, 2025] (0704-0725)

UA, EUROPEAN RUSSIA. Sergey, UA1ATD plans to be active as **UA1ATD/p** from ten RRA (Russian Robinson Award) islands in Onega Bay (White Sea), starting on July 20th for 10-12 days. Three islands - namely Kotkano, Bol'shoy Kuz'min and Kondostrov - qualify also for IOTA group EU-147. See https://www.qrz.com/db/UA1ATD for more information. Usually, Sergey operates CW on 20 meters. QSL via ClubLog's OQRS and LoTW.
-[425DXN # 1783 July 5, 2025] (0718-0801)

UAØ, ASIATIC RUSSIA. Team **RIØCR** (R3BY, R5EM, RU3EG, RU5D, RW3XA, RZ3EC and UA3EDQ) will be active from Ustrichnyy Island (AS-114) on July 15th-20th. They will operate CW, SSB and digital modes on 40-10 meters. See https://robinsons.ru/ri0cr/ for more information. QSL via RZ3EC and LoTW.
-[425DXN # 1779 June 7, 2025] (0711-0725)

V4, ST. KITTS & NEVIS. Pete, GØTLE will be QRV as **V47EM** from St. Kitts (NA-104) from July 20th to August 2nd. Activity will be holiday style, using CW and SSB on 80 to 10 meters, including an entry in the IOTA contest. QSL via LoTW, OQRS or GØTLE.
-[ARRL DX Bulletin # 28 July 10, 2025] (0718-0801)

VE, CANADA. Look for **N7BF/VY2**, **WT4BT/VY2** and **W6ABM/VY2** to be active from Prince Edward Island (NA-029) from July 23rd to August 4th. They plan to participate in the IOTA Contest (July 26th-27th). QSL via N7BF, WT4BT, W6ABM.
-[425DXN # 1785 July 19, 2025] (0718-0808)

VE, CANADA. Stuart, VA7QB, celebrates the IARU jubilee as **XL7IARU** during July on CW, SSB, and FT8. QSL via VA7QB.
-[DXNL # 2461 June 4, 2025] (0627-0801)

VE, CANADA. Jeff, K1ZN, operates as **VY2/K1ZN** from Prince Edward Island (NA-029) from July 16th to 21st. QSL via K1ZN.
-[DXNL # 2467 July 16, 2025] (0718-0725)

VE, CANADA. Members of the Salt Spring Island Amateur Radio Society will be active as **VE7RAS** from Salt Spring Island (NA-075) during their annual social event on July 19th-20th. Activity will be on 40-10 meters SSB. All QSOs will be uploaded to LoTW and ClubLog; paper QSL cards will not be provided.
-[425DXN # 1784 July 12, 2025] (0718-0725)

VE, CANADA. The NA128 Contest Group (http://www.qsl.net/na128cg) will be active again as **XM2I** from Ile-aux-Coudres (NA-128) on July 24th-27th, IOTA Contest included. XM2I will also be used (NOT FROM NA-128) on various bands and modes from July 12th to August 11th, particularly during the IARU HF World Championship (July 12th-13th), the North American QSO Party, RTTY (July 19th), the North American QSO Party, CW (August 2nd), and the WAE DX Contest, CW (August 9th). QSL via F5JYD; all QSOs will be uploaded to LoTW on August 15.
-[425DXN # 1783 July 5, 2025] (0718-0801)

VE, CANADA. Pierre, VE3KTB will be active again as **VYØERC** from the Eureka Amateur Radio Club station on Ellesmere Island (NA-008) from June 26th to July 24th. He operates SSB, CW and FT8 on various bands when time permits. He plans to operate as **VYØRAC** during the RAC Canada Day Contest (July 1st). QSL via MØOXO's OQRS and LoTW.
-[425DXN # 1781 June 21, 2025] (0620-0725)

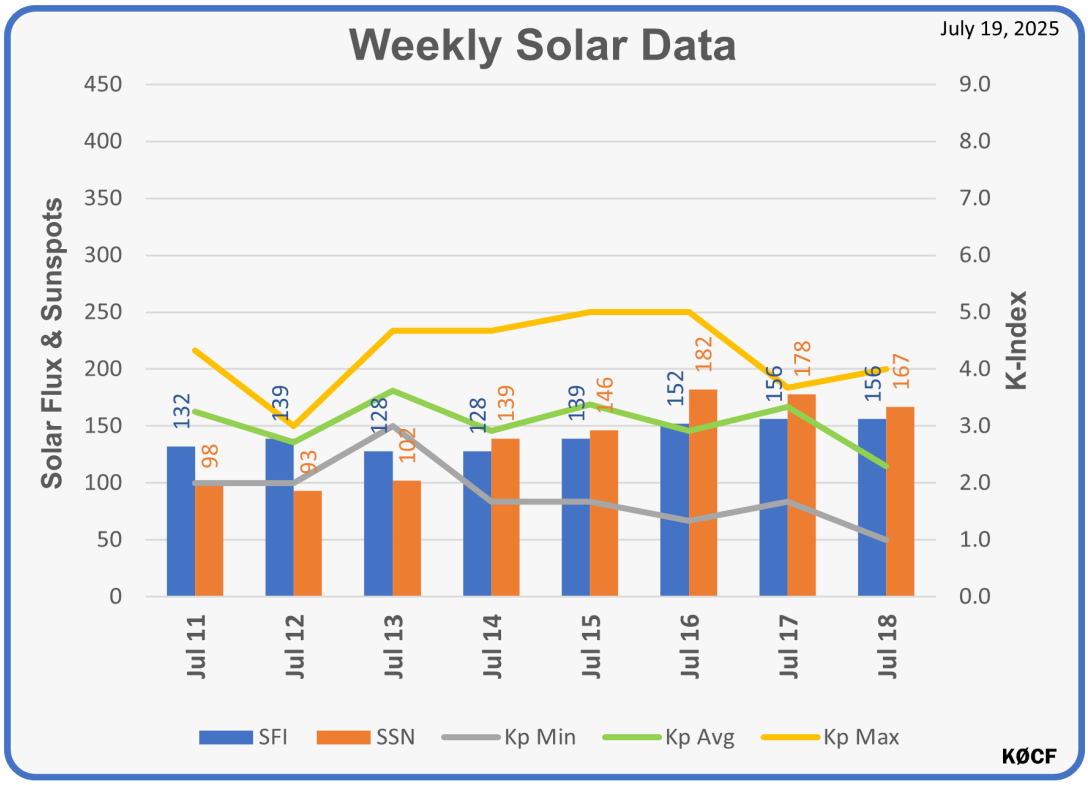
YN, NICARAGUA. Rafael, NN3RP will operate holiday style as **YN2RP** from July 12th to August 5th on 40 to 10 meters using CW, SSB, RTTY, FT8 and FT4, and maybe via FM satellites. QSL via NN3RP, ClubLog's OQRS or LoTW.
-[ARRL DX Bulletin # 28 July 10, 2025] (0711-0808)

ZA, ALBANIA. Marcin, SQ9ITA, is QRV as **ZA/SQ9ITA** from Sarande until July 24th. Activity is on the HF bands using CW. QSL to SQ9ITA.
-[ARRL DX Bulletin # 29 July 17, 2025] (0718-0725)

ZD8, ASCENSION I. Larry, KI6LT, is QRV as **KI6LT/ZD8** until July 21st. Activity is on 40, 20, 15, and 10 meters using SSB. QSL to KI6LT.
-[ARRL DX Bulletin # 29 July 17, 2025] (0718-0725)

ZL, NEW ZEALAND. Special callsign **ZL1ØØIARU** will be used by New Zealand's IARU member society, NZART, to celebrate the 100th anniversary of the International Amateur Radio Union until July 31st. QSOs will be uploaded to QRZ Logbook and LoTW.
-[425DXN # 1776 May 17, 2025] (0516-0801)

Propagation (Updated daily)



The Weekly Solar Data chart plots Solar Flux Index (SFI), Sunspot number (SSN) and Planetary K-Index (Kp) for the past 8 days. With 8 Planetary K-index readings each day, only the minimum, average and maximum K-index values are plotted. **Note:** *You may click* **here** *or on the chart above to see the same data for the past month.*

The Daily Solar Flux Index, Sunspot number, Planetary K-index, Solar Flux predictions and Solar Flare data used in this bulletin have been collected by KØCF from the U.S. Department of Commerce's NOAA Space Weather Prediction Center.

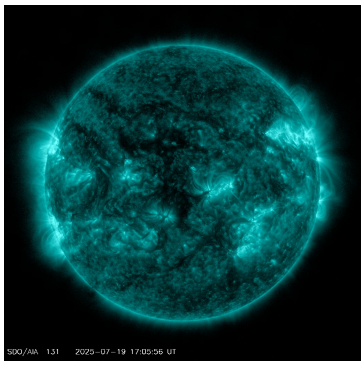
The propagation graphs above are the creations of KØCF and are unique in space weather reporting.

Please Note: The graphs are high resolution .PNG files which you may view in greater detail using your browser's "zoom" feature. Alternatively, right click on the graph and select "Open Image in New Tab" to enlarge it, or "Save Image As..." to save it to your computer for further analysis.

NASA's current view of
the Sun at a wave-

length of 131 Angstroms. This wavelength shows incredible solar detail.

Click here or on the image to view as a full screen 48-hour video loop. It is fascinating!



Propagation Summary

For the 8 day period from Friday, July 11th through yesterday, July 18th.

The average solar flux was 143, up 21 points from the previous week, with a weekly high of 156 on Friday, July 18th, following a low of 128 on July 14th.

The average sunspot count was 144, up 58 from last week, peaking at 182 on Wednesday, July 16th after a weekly low of 93 on July 12th.

The Planetary K-index weekly average was 4.3 with a maximum of 5.0 on Wednesday, July 16th, indicating a minor geomagnetic storm. Yesterday's K-index maximum was 4.0 with generally quiet conditions.

Solar flare activity since July 12th has been quiet with only 3 major flares, the largest of which was an M 2.3 event on Saturday, July 12th.

Propagation Data

Major solar flares, Saturday, July 12th through 1321 UTC, July 19th.

#	Date	UTC	Mag.
1	Jul 12	1210	M 1.6
2	Jul 12	0834	M 2.3
3	Jul 12	0402	M 1.4

(NOAA's graph of recent flare activity: GOES-X-Ray-Flux)

From the NOAA Space Weather Prediction Center, here are the probabilities of major solar flares and the predicted 10.7 cm Solar Flux for the next 3 days. NOAA updates this information daily.

Date	M-Flares	X-Flares	Solar Flux
Jul 19	60%	15%	155
Jul 20	60%	15%	150
Jul 21	60%	15%	150

Looking farther ahead, here is the NOAA Space Weather Prediction Center forecast of 10.7 cm radio flux and maximum Planetary K-index (Kp) for the next 12 days. This data is updated by NOAA every Monday (last updated on July 14, 2025).

Date	Flux	Kp
Jul 19	122	2
Jul 20	118	2
Jul 21	120	2

Date	Flux	Kp
Jul 23	125	4
Jul 24	128	4
Jul 25	128	3

Date	Flux	Kp
Jul 27	130	4
Jul 28	130	2
Jul 29	130	2

Jul 22	125	4
Jul 26	128	2
Jul 30	132	2

Chance of Flares Today

Don't be surprised if there is a solar flare today. NOAA forecasters estimate a 60% chance of M-class flares from one of at least four sunspots with unstable magnetic fields.
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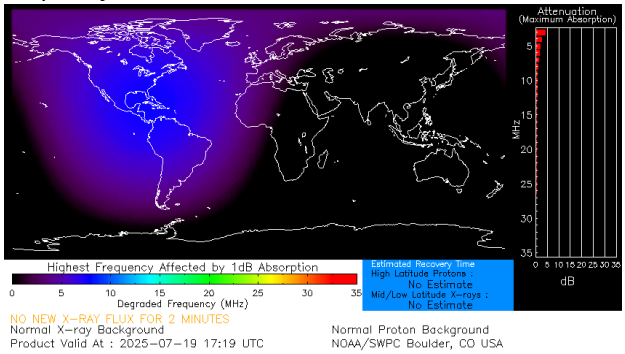
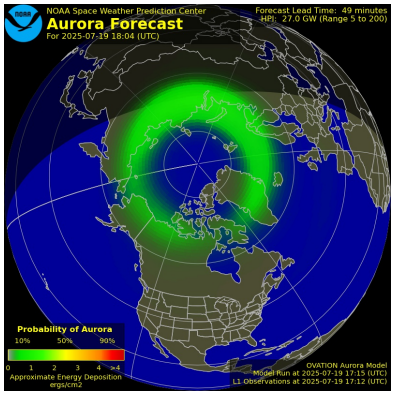
Global D Region Absorption

Conditions in the D-region of the ionosphere have a dramatic effect on HF communications. The D-Region Absorption map combines the effects of solar particles and photons. Yellow to red colors on the map depict increasing signal attenuation, where the bar chart at the right displays attenuation versus frequency. Click the thumbnail below for an animated map of D-Region Absorption:



The Aurora Borealis

The aurora is not only beautiful to see but can have a profound impact on HF and VHF radio propagation. For the HF operator, auroras can result in a complete shut-down of propagation. However, on VHF, auroras present interesting DX possibilities. Beam antennas are very desirable and should be pointed north, towards the aurora. Signals are reflected by “back-scatter” and will be distorted with a rough buzz. SSB is the best voice mode to use, but copy can be difficult. CW will have a rough buzzy sound but be perfectly copyable. Click the thumbnail below for an animated map of aurora versus time:



Highs for Cycle 25

Solar Flux: 336 on August 8, 2024.
Sunspots: 382 on August 10, 2024.

Popular Propagation web sites

https://prop.kc2g.com/ (Excellent Maximum Usable Frequency map)
NOAA https://www.swpc.noaa.gov/
https://www.spaceweather.com/
https://www.solarham.com/
https://dx.qsl.net/propagation/

A Propagation Tutorial

The solar X-ray flux tracks solar activity and solar flares. Solar flux, which can vary from as low as 50

to as high as 300, influences the level of ionization in the F2 region of the ionosphere, providing a very good prediction of HF DX conditions. The higher the solar flux, the better conditions will be for the higher HF frequencies and even 6 meters. However, the levels need to be maintained for some days to allow ionization in the F2 layer to build up. A solar flux of 150 results in good HF band conditions, while levels of 200 and up can provide great conditions.

Large X-ray flares on the sun can increase the ionization of the D layer of the ionosphere (a lower layer) on the sunlit side of the Earth, greatly attenuating or blocking HF radio transmissions for up to a half hour. Solar flares often produce Coronal Mass Ejections (CMEs) which, if Earth directed, can lead to geomagnetic storms. Some large flares are also accompanied by strong radio bursts that may interfere with other radio frequencies and cause problems for satellite communication and radio navigation (GPS).

The Planetary K-index is a measure of the magnitude of geomagnetic storms and is an excellent indicator of disturbances in the Earth's magnetic field. A level of 1 or 2 represents quiet geomagnetic conditions; a reading of 3 or 4 may cause some propagation deterioration; 5 and 6 are minor to moderate geomagnetic storms; and 7 to 9 are strong, severe, and extreme storm conditions. Strong geomagnetic storms can trigger Auroral displays and cause HF radio blackouts. Higher geomagnetic activity also has the adverse effect of lowering maximum usable frequencies, much like lower solar flux does.

For best conditions, the solar flux should be above 150 for a few days with the K index below 2. When these conditions are met, some good DX is likely!
-[Compiled from information on NOAA.gov and other sources]

Contest Calendar

Weekly Contests

Contest	Start UTC		End	Web Site
K1USN Slow Speed Test	Monday	0000Z	0100Z	Rules
ICWC Medium Speed Test	Monday	1300Z	1400Z	Rules
	Monday	1900Z	2000Z	
	Tuesday	0300Z	0400Z	
CWops Test (CWT)	Wednesday	1300Z	1400Z	Rules
	Wednesday	1900Z	2000Z	
	Thursday	0300Z	0400Z	
	Thursday	0700Z	0800Z	
Weekly RTTY Test	Friday	0145Z	0215Z	Rules
NCCC CW Sprint (NS)	Friday	0230Z	0300Z	Rules

Note: Start Days are in UTC, e.g. Monday at 0000 UTC is Sunday at 7:00 PM in the Central Daylight Saving Time zone, or Sunday at 6:00 PM in the Central Standard Time zone.

Full Calendar

Contest	Start		End		Web Site
North American QSO Party, RTTY	Jul 19	1800Z	Jul 20	0600Z	Rules
CQ Worldwide VHF Contest	Jul 19	1800Z	Jul 20	2100Z	Rules

North American QSO Party, CW	Aug 2	1800Z	Aug 3	0600Z	Rules
WAE DX Contest, CW	Aug 9	0000Z	Aug 10	2359Z	Rules
Maryland-DC QSO Party	Aug 9	1400Z	Aug 10	0400Z	Rules
North American QSO Party, SSB	Aug 16	1800Z	Aug 17	0600Z	Rules
ARRL Rookie Roundup, RTTY	Aug 17	1800Z	Aug 17	2359Z	Rules
Ohio QSO Party	Aug 23	1600Z	Aug 24	0400Z	Rules
YO DX HF Contest	Aug 30	1200Z	Aug 31	1200Z	Rules
World Wide Digi DX Contest	Aug 30	1200Z	Aug 31	1200Z	Rules
Kansas QSO Party	Aug 30	1400Z	Aug 31	2000Z	Rules
Tennessee QSO Party	Sep 7	1700Z	Sep 8	0300Z	Rules
ARRL September VHF Contest	Sep 13	1800Z	Sep 15	0300Z	Rules
Scandinavian Activity Contest, CW	Sep 20	1200Z	Sep 21	1200Z	Rules
New Jersey QSO Party	Sep 20	1400Z	Sep 21	0159Z	Rules
Texas QSO Party	Sep 20	1400Z	Sep 21	2000Z	Rules
Wisconsin Parks on the Air	Sep 20	1600Z	Sep 20	2300Z	Rules
Washington State Salmon Run	Sep 20	1600Z	Sep 21	2400Z	Rules
New Hampshire QSO Party	Sep 20	1600Z	Sep 21	2200Z	Rules
North American Sprint, RTTY	Sep 21	0000Z	Sep 21	0359Z	Rules
CQ Worldwide DX Contest, RTTY	Sep 27	0000Z	Sep 28	2400Z	Rules
Maine QSO Party	Sep 27	1200Z	Sep 28	1200Z	Rules
Oceania DX Contest, Phone	Oct 4	0600Z	Oct 5	0600Z	Rules
California QSO Party	Oct 4	1600Z	Oct 5	2200Z	Rules
QRP ARCI Fall QSO Party	Oct 11	0000Z	Oct 11	2359Z	Rules
Makrothen RTTY Contest	Oct 11	0000Z	Oct 12	1559Z	Rules
Nevada QSO Party	Oct 11	0300Z	Oct 12	2100Z	Rules
Oceania DX Contest, CW	Oct 11	0600Z	Oct 12	0600Z	Rules
Scandinavian Activity Contest, SSB	Oct 11	1200Z	Oct 12	1200Z	Rules
Arizona QSO Party	Oct 11	1500Z	Oct 12	0500Z	Rules
Pennsylvania QSO Party	Oct 11	1600Z	Oct 12	0400Z	Rules
	Oct 12	1300Z	Oct 12	2200Z	
South Dakota QSO Party	Oct 11	1800Z	Oct 12	1800Z	Rules
10-10 Int. Fall Contest, CW	Oct 18	0001Z	Oct 19	2359Z	Rules
New York QSO Party	Oct 18	1400Z	Oct 19	0200Z	Rules
Worked All Germany Contest	Oct 18	1500Z	Oct 19	1459Z	Rules
Stew Perry Topband Challenge	Oct 18	1500Z	Oct 19	1500Z	Rules
Illinois QSO Party	Oct 19	1700Z	Oct 20	0100Z	Rules

-[Contest data courtesy of the WA7BNM Contest Calendar]

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